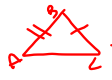




5.1
Coordinate Proof
Midsegment thm.

5.2 3 \perp bis. circumcenter
5.3 = vertia
5.4 3 \angle Bis Incenter = side
3 Medians Centroid $\frac{2}{3} \frac{1}{3} \frac{1}{3}$
3 alt. Orthocenter
Graph

5.5 Thm 5.10  thm $m\angle C > m\angle A$
5.6 Thm 5.11

Hinge thm 2 sides \cong
Conv.

Triangle Ineq thm  $a+b > c$
Ext \angle Ineq thm
 $m\angle 1 > m\angle 4$ $m\angle 1 > m\angle 3$

Indirect proof

- ① Assume opposite of prove
- ② Reason 'til contradict
given
- ③ Our assumption is false
 \therefore